PATENT COOPERATION TREATY



From the INTERNATIONAL SEARCHING AUTHORITY

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing (day/month/year)

04/02/2005

Applicant's or agent's file reference

P039223WO

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/GB2004/004592

International filing date

PC1/GB2004/004

(day/month/year)

29/10/2004

Applicant

LIFESCAN SCOTLAND LIMITED

1. X
The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes

1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90*bis*.1 and 90*bis*.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer

Luis-Miguel Paredes Sanchez

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1))

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | FOR FURTHER | | see Form PCT/ISA/220 | | | |
|---|--|------------------|---|--|--|--|
| P039223WO | ACTION as well | | as, where applicable, item 5 below. | | | |
| International application No. | International filing date (day/month/year) | | (Earliest) Priority Date (day/month/year) | | | |
| PCT/GB2004/004592 | 29/10/2004 | : | 31/10/2003 | | | |
| Applicant | | | | | | |
| LIBROGIN GGOMININ LINIBR | | | | | | |
| LIFESCAN SCOTLAND LIMITED | | | | | | |
| This International Search Report has beer according to Article 18. A copy is being tra | | | rity and is transmitted to the applicant | | | |
| This International Search Report consists | of a total of <u>4</u> sh | eets. | | | | |
| X It is also accompanied by | a copy of each prior art document | cited in this re | eport. | | | |
| Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. | | | | | | |
| The international this Authority (Rul | | of a translati | ion of the international application furnished to | | | |
| b. With regard to any nucleo | otide and/or amino acid sequenc | disclosed in | the international application, see Box No. I. | | | |
| 2. Certain claims were four | nd unsearchable (See Box II). | | | | | |
| 3. Unity of invention is lack | king (see Box III). | | | | | |
| 4. With regard to the title, | | | | | | |
| the text is approved as su | bmitted by the applicant. | | | | | |
| X the text has been establis | hed by this Authority to read as foll- | ows: | | | | |
| ELECTROCHEMICAL TEST S | TRIP FOR REDUCING TH | E EFFECT | OF DIRECT INTERFERENCE CURREN | | | |
| | | | • | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 5. With regard to the abstract, | | | | | | |
| the text is approved as su | bmitted by the applicant. | | | | | |
| | | | | | | |
| | | | | | | |
| With regard to the drawings, a. the figure of the drawings to be published with the abstract is Figure No1 | | | | | | |
| as suggested by the applicant. | | | | | | |
| X as selected by this Authority, because the applicant failed to suggest a figure. | | | | | | |
| | s Authority, because this figure bet | | • | | | |
| b. none of the figures is to be | e published with the abstract. | | | | | |

International application No.

INTERNATIONAL SEARCH REPORT

PCT/GB2004/004592

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

This invention describes an electrochemical sensor which is adapted to reduce the effects of interfering compounds in bodily fluids when measuring an analyte in such fluids using an electrochemical strip (62). The sensor includes a substrate (50), a first and second working electrodes (10,12), and a reference electrode (14). A reagent layer (22) is disposed on the electrodes such that, in one embodiment it completely covers all of the first working electrode (10), but only partially covers the second working electrode (12) and, in a second embodiment, it only covers a portion of the first and the second working electrode. The portion of the working electrodes not covered by the reagent layer and is used to correct for the interference effect on the analyte measurement.

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/004592

| A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01N27/327 C1201/00 | | | | | | |
|--|---|---|---|--|--|--|
| 11C / GOINZ//32/ CI2QI/00 | | | | | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | | | | | |
| | SEARCHED | ilication and IFC | | | | |
| | ocumentation searched (classification system followed by classific | ation symbols) | | | | |
| IPC 7 | G01N C12Q | | | | | |
| Documenta | tion searched other than minimum documentation to the extent tha | t such documents are included in the fields or | parchod | | | |
| Dodamonia | tion source outer than minimum describination to the extent the | a such documents are included in the helds so | saloned | | | |
| Electronic d | lata base consulted during the international search (name of data | base and, where practical, search terms used |) | | | |
| EPO-In | ternal | | | | | |
| | | | • | | | |
| | | | | | | |
| C. DOCUM | ENTS CONSIDERED TO BE RELEVANT | | | | | |
| Category ° | Citation of document, with indication, where appropriate, of the | relevant passages | Relevant to claim No. | | | |
| 1 | UC C OFO OOO DI (UTNADTA HANDANI | I FT AL | 1 14 | | | |
|] A | US 6 258 229 B1 (WINARTA HANDAN: 10 July 2001 (2001-07-10) | I ET AL) | 1–14 | | | |
| | column 6, line 48 - column 7, l | ine 42; | | | | |
| | figures 2,3 | | | | | |
| ∤A | US 6 540 891 B1 (STEWART ALAN A | NDREW ET | 1-14 | | | |
| | AL) 1 April 2003 (2003-04-01) column 5, line 63 - column 6, l | ino 67: | | | | |
| | figure 3 | ille 07, | | | | |
| | US 6 287 451 B1 (WINARTA HANDAN) | r et al) | 1 14 | | | |
| 1^ | 11 September 2001 (2001-09-11) | L ET AL) | 1–14 | | | |
| | column 7, line 44 - column 8, line 52 | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Further documents are listed in the continuation of box C. | | | | | | |
| ° Special ca | tegories of cited documents : | "T" later document published after the inte | | | | |
| | ent defining the general state of the art which is not dered to be of particular relevance | or priority date and not in conflict with cited to understand the principle or the | | | | |
| *E* earlier document but published on or after the international filing data. *X* document of particular relevance; the claimed invention | | | | | | |
| "L' document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone | | | | | | |
| which is clied to establish the publication date of another citation or other special reason (as specified) "O" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu— | | | | | | |
| other means ments, such combination being obvious to a person skilled in the art. | | | | | | |
| later th | nan the priority date claimed | <u> </u> | & document member of the same patent family | | | |
| Date of the actual completion of the international search Date of mailing of the international search report | | | | | | |
| 3 | 1 January 2005 | 04/02/2005 | | | | |
| Name and r | nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 | Authorized officer | | | | |
| | NL - 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, | Uilhalm 1 | | | | |
| | Fax: (+31–70) 340–3016 | Wilhelm, J | | | | |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/GB2004/004592

| Patent document cited in search report | | Publication date | | Patent family member(s) | Publication date |
|---|----|------------------|--|---|--|
| US 6258229 | B1 | 10-07-2001 | AU CA EP JP WO | 5176000 A 2375089 A1 1181539 A1 2003501626 T 0073778 A1 | 18-12-2000 07-12-2000 27-02-2002 14-01-2003 07-12-2000 |
| US 6540891 | B1 | 01-04-2003 | GB AU AU BR CA EP WO JP | 2337122 A 758617 B2 3835899 A 9910284 A 2331824 A1 1075538 A1 9958709 A1 2002514744 T | 10-11-1999 27-03-2003 29-11-1999 09-01-2001 18-11-1999 14-02-2001 18-11-1999 21-05-2002 |
| US 6287451 | B1 | 11-09-2001 | AT AU CA DE DE EP ES JP WO | 273511 T 5321200 A 2375092 A1 1212609 T1 60012946 D1 60012946 T2 1212609 A2 2177474 T1 2003501627 T 0073785 A2 | 15-08-2004 18-12-2000 07-12-2000 28-11-2002 16-09-2004 05-01-2005 12-06-2002 16-12-2002 14-01-2003 07-12-2000 |

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

| То: | | PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1) | | | |
|---|---|---|--|--|--|
| see form PCT/ISA/220 | | | | | |
| | | Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) | | | |
| Applicant's or agent's file reference see form PCT/ISA/220 | | FOR FURTHER ACTION See paragraph 2 below | | | |
| International application No. PCT/GB2004/004592 | International filing date (days 29.10.2004 | ay/month/year) | Priority date (day/month/year) 31.10.2003 | | |
| International Patent Classification (IPC) or b G01N27/327, C12Q1/00 | ooth national classification a | and IPC | | | |
| Applicant LIFESCAN SCOTLAND LIMITED | | | | | |
| 1. This opinion contains indications relating to the following items: □ Box No. I Basis of the opinion □ Box No. II Priority □ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability □ Box No. IV Lack of unity of invention □ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement □ Box No. VI Certain documents cited □ Box No. VII Certain defects in the international application | | | | | |
| | ations on the internation | | | | |
| 2. FURTHER ACTION | | | | | |
| If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. | | | | | |
| submit to the IPEA a written reply | If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. | | | | |
| For further options, see Form PC | For further options, see Form PCT/ISA/220. | | | | |
| 3. For further details, see notes to Form PCT/ISA/220. | | | | | |

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016 Authorized Officer

Wilhelm, J

Telephone No. +31 70 340-2633



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/004592

| | Box N | o. I Basis of the opinion | | | | | |
|--|---|---|--|--|--|--|--|
| 1. | . With regard to the language , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. | | | | | | |
| | la | nis opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)). | | | | | |
| 2. | . With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: | | | | | | |
| | a. type of material: | | | | | | |
| | | a sequence listing | | | | | |
| ☐ table(s) related to the sequence listing | | | | | | | |
| b. format of material: | | | | | | | |
| | | in written format | | | | | |
| | | in computer readable form | | | | | |
| c. time of filing/furnishing: | | | | | | | |
| □ contained in the international application as filed. | | | | | | | |
| | | filed together with the international application in computer readable form. | | | | | |
| | | furnished subsequently to this Authority for the purposes of search. | | | | | |
| 3. | ha cc | addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished. | | | | | |
| 4. | Additio | onal comments: | | | | | |

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/004592

| | Box | No. II | Priority | | | | |
|----|--|---|---|-------------|---------------------------|---|--|
| 1. | ☐ The following document has not been furnished: | | | | | | |
| | | \boxtimes | copy of the earlier a | pplicatio | n whose pi | riority has been claimed (Rule 43bis.1 and 66.7(a)). | |
| | | | translation of the ea | rlier appl | ication who | ose priority has been claimed (Rule 43bis.1 and 66.7(b)). | |
| | | | | | | ider the validity of the priority claim. This opinion has tion that the relevant date is the claimed priority date. | |
| 2. | | ☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date. | | | | | |
| 3. | | It has not been possible to consider the validity of the priority claim because a copy of the priority document was not available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date. | | | | | |
| 4. | Add | litional c | bservations, if neces | sary: | | | |
| | | | | | | | |
| | | | | | | | |
| | | No. V ustrial a | Reasoned statem applicability; citation | ent und | ler Rule 43 explanatio | 3bis.1(a)(i) with regard to novelty, inventive step or one supporting such statement | |
| 1. | Stat | tement | | | | | |
| | Nov | elty (N) | | Yes: No: | Claims Claims | 1-14 | |
| | Inve | entive st | ep (IS) | Yes: No: | Claims Claims | 1-14 | |
| | Indu | ustrial a | pplicability (IA) | Yes: No: | Claims Claims | 1-14 | |
| 2. | Cita | ations ar | nd explanations | | | | |

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2004/004592

Re Item V.

- The following document is referred to in this communication:
 D1: US 6258229 B1 (WINARTA HANDANI ET AL) 10 July 2001 (2001-07-10)
- 2.1. Document D1 discloses an electrochemical sensor comprising a substrate (20), two working electrodes (W, W0) and a reference electrode (R) disposed on said substrate (20) and a reagent layer (50) completely covering said electrodes.
- 2.2. The subject-matter of independent claims 1 and 7 differs from this teaching in that either the second working electrode or both working electrodes are only partially covered by a reagent layer.
- 2.3. This feature provides a means for determining the currents caused by interfering compounds. Such a solution of this problem is not disclosed or suggested in the available prior art, the subject-matter of independent claims 1 and 7 is therefore novel and inventive (Article 33 PCT).